

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	("20030150284" or "20030121337" or "20020174732" or "20010035058").pn.	US-PGPUB	OR	ON	2005/10/02 20:10
L2	47	US-2614413-\$.DID. OR US-3184275-\$.DID. OR US-3302615-\$.DID. OR US-4000460-\$.DID. OR US-4178545-\$.DID. OR US-4313679-\$.DID. OR US-4812750-\$.DID. OR US-4854726-\$.DID. OR US-4926118-\$.DID. OR US-5021732-\$.DID. OR US-5039228-\$.DID. OR US-5072177-\$.DID. OR US-5126656-\$.DID. OR US-5143450-\$.DID. OR US-5147136-\$.DID. OR US-5195384-\$.DID. OR US-5206518-\$.DID. or "4521333". pn. or US-5383994-\$.DID. OR US-5392631-\$.DID. OR US-5431599-\$.DID. OR US-5446394-\$.DID. OR US-5450018-\$.DID. OR US-5503032-\$.DID. OR US-5528161-\$.DID. OR US-5537828-\$.DID. OR US-5537868-\$.DID. OR US-5543727-\$.DID. OR US-5660103-\$.DID. OR US-5675098-\$.DID. OR US-5721669-\$.DID. OR US-5767424-\$.DID. OR US-5792427-\$.DID. OR US-5834946-\$.DID. OR US-5842313-\$.DID. OR US-5859409-\$.DID. OR US-5927504-\$.DID. OR US-6009748-\$.DID. OR US-6070478-\$.DID. OR US-6124707-\$.DID. OR US-6141780-\$.DID. OR US-6169413-\$.DID. OR US-6227701-\$.DID. or US-6272767-\$.DID. OR US-6526841-\$.DID. OR US-6679128-\$.DID. OR US-6806700-\$.DID.	USPAT	OR	ON	2005/10/02 20:21

L3	7	(JP-57151842-\$ or JP-07140062-\$ or JP-05172733-\$ or SU-1251043-\$ or SU-1578596-\$ or WO-200287211-\$ or WO-200109627-\$).did.	EPO; JPO; DERWENT	OR	ON	2005/10/02 20:26
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DERWENT-ACC-NO: 2003-075651

DERWENT-WEEK: 200537

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TITLE: Hard drive test fixture for  
securing and testing hard  
drive while in environmental  
chamber has test card  
coupled to pan, bearing  
surface for guiding hard drive to  
test card and ejection  
mechanism

INVENTOR: SANDS, R L; WANEK, D J ; SANDS, R

PATENT-ASSIGNEE: PEMSTAR INC[PEMSN] , SANDS R  
L[SANDI], WANEK D J[WANEI],  
SANDS R[SANDI]

PRIORITY-DATA: 2001US-286732P (April 25, 2001) ,  
2002US-0125653 (July 30, 2002)  
, 2004US-0968830 (October 19, 2004)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE
LANGUAGE		MAIN-IPC
US 20050116702	A1	June 2, 2005
N/A	000	G01R 001/00
<b><u>WO 200287211 A2</u></b>		October 31, 2002
E	027	H04N 000/00
US 20020174732	A1	November 28, 2002
N/A	000	G01M 019/00
US 2003150284	A9	August 14, 2003
N/A	000	G01M 019/00

CN 1513106 A		July 14, 2004
N/A	000	F26B 019/00
US 6806700 B2		October 19, 2004
N/A	000	G01R 031/01

DESIGNATED-STATES: CN JP SG

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-
NO	APPL-DATE	
US20050116702A1	Provisional	
2001US-286732P	April 25, 2001	
US20050116702A1	Cont of	
2002US-0125653	April 18, 2002	
US20050116702A1	N/A	
2004US-0968830	October 19, 2004	
US20050116702A1	Cont of	US
6806700	N/A	
WO 200287211A2	N/A	
2002WO-US12262	April 18, 2002	
US20020174732A1	Provisional	
2001US-286732P	April 25, 2001	
US20020174732A1	N/A	
2002US-0125653	July 30, 2002	
US2003150284A9	Provisional	
2001US-286732P	April 25, 2001	
US2003150284A9	N/A	
2002US-0125653	April 18, 2002	
CN 1513106A	N/A	
2002CN-0811129	April 18, 2002	
US 6806700B2	Provisional	
2001US-286732P	April 25, 2001	
US 6806700B2	N/A	
2002US-0125653	April 18, 2002	

INT-CL (IPC): F26B019/00, G01M019/00 ,

G01N017/00 , G01R001/00 ,  
G01R001/04 , G01R031/01 , H04N000/00

ABSTRACTED-PUB-NO: WO 200287211A

BASIC-ABSTRACT:

NOVELTY - A test card (22) is coupled to a pan (12). A bearing surface may guide a hard drive (16) to the test card and an ejection mechanism. The bearing surface includes a number of relatively compressible rollers (30,32) accommodated within a rail (18) connected to the pan.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for:

(a) an environmental test chamber

USE - In an environmental chamber using a fixture for securing and testing a hard drive while in an environmental chamber.

ADVANTAGE - Provides a low-cost hard drive test fixture that is adaptable to accommodate disk drives of varying sizes.

DESCRIPTION OF DRAWING(S) - The drawing is a top view of a hard drive test fixture, according to one embodiment of the present invention.

pan 12

hard drive 16

test card 22

rollers 30,32

CHOSEN-DRAWING: Dwg.1a/6

DERWENT-CLASS: Q76 T01 T03 V04

EPI-CODES: T01-H01B1; T01-L02; T03-A04A5; T03-A08A1C; T03-N01; V04-T02;

DERWENT-ACC-NO: 2001-226484

DERWENT-WEEK: 200407

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TITLE: An environmental test  
chamber for e.g. computer hard  
drives, has insulating/air  
plenum brick bolted to  
baseplate of each modular  
pallet and adjoined to bricks  
of other pallets to form  
barrier wall

INVENTOR: MELVILLE, J A; SANDS, R L ; SWANSON, L L  
; TROUTMAN, M ; WANEK, D J  
; WANEK, D L ; TROUTMAN, M E

PATENT-ASSIGNEE: PEMSTAR INC[PEMSN] , MELVILLE J  
A[MELVI], SANDS R  
L[SANDI], SWANSON L L[SWANI], TROUTMAN  
M[TROUI], WANEK D J[WANEI]

PRIORITY-DATA: 1999US-170939P (December 15, 1999) ,  
1999US-146812P (August 2,  
1999) , 1999US-146988P (August 3, 1999) , 1999US-  
158280P (October 7, 1999)  
, 2000US-0631055 (August 1, 2000) , 2001US-0879454  
(June 12, 2001)  
, 2002US-0295764 (November 15, 2002)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE
LANGUAGE	MAIN-IPC	
US 6679128 B2		January 20, 2004

N/A	000	G01N 017/00
<b><u>WO 200109627 A2</u></b>		February 8, 2001
E	060	G01R 031/00
AU 200063970 A		February 19, 2001
N/A	000	G01R 031/00
US 20010035058 A1		November 1, 2001
N/A	000	G01N 017/00
JP 2003506687 W		February 18, 2003
N/A	057	G01N 017/00
US 6526841 B1		March 4, 2003
N/A	000	G01N 017/00
CN 1382260 A		November 27, 2002
N/A	000	G01R 031/28
US 20030121337 A1		July 3, 2003
N/A	000	G01N 017/00

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA  
 CH CN CU CZ DE DK EE ES FI  
 GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
 LC LK LR LS LT LU LV MD MG  
 MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
 TM TR TT UA UG UZ VN YU ZW  
 AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE  
 LS LU MC MW MZ NL OA PT SD  
 SE SL SZ TZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-
NO	APPL-DATE	
US 6679128B2	Provisional	
1999US-146812P	August 2, 1999	
US 6679128B2	Provisional	
1999US-146988P	August 3, 1999	
US 6679128B2	Provisional	
1999US-158280P	October 7, 1999	
US 6679128B2	Provisional	



1999US-170939P	December 15, 1999	
US 6679128B2	Div ex	
2000US-0631055	August 1, 2000	
US 6679128B2	N/A	
2001US-0879454	June 12, 2001	
WO 200109627A2	N/A	
2000WO-US21083	August 2, 2000	
AU 200063970A	N/A	
2000AU-0063970	August 2, 2000	
AU 200063970A	Based on	WO
200109627	N/A	
US20010035058A1	Provisional	
1999US-146812P	August 2, 1999	
US20010035058A1	Provisional	
1999US-146988P	August 3, 1999	
US20010035058A1	Provisional	
1999US-158280P	October 7, 1999	
US20010035058A1	Provisional	
1999US-170939P	December 15, 1999	
US20010035058A1	Div ex	
2000US-0631055	August 1, 2000	
US20010035058A1	N/A	
2001US-0879454	June 12, 2001	
JP2003506687W	N/A	
2000WO-US21083	August 2, 2000	
JP2003506687W	N/A	
2001JP-0514585	August 2, 2000	
JP2003506687W	Based on	WO
200109627	N/A	
US 6526841B1	Provisional	
1999US-146812P	August 2, 1999	
US 6526841B1	Provisional	
1999US-146988P	August 3, 1999	
US 6526841B1	Provisional	
1999US-158280P	October 7, 1999	
US 6526841B1	Provisional	
1999US-170939P	December 15, 1999	

US 6526841B1	N/A	
2000US-0631055	August 1, 2000	
CN 1382260A	N/A	
2000CN-0813352	August 2, 2000	
US20030121337A1	Provisional	
1999US-146812P	August 2, 1999	
US20030121337A1	Provisional	
1999US-146988P	August 3, 1999	
US20030121337A1	Provisional	
1999US-158280P	October 7, 1999	
US20030121337A1	Provisional	
1999US-170939P	December 15, 1999	
US20030121337A1	Cont of	
2000US-0631055	August 1, 2000	
US20030121337A1	N/A	
2002US-0295764	November 15, 2002	
US20030121337A1	Cont of	US
6526841	N/A	

INT-CL (IPC): G01N017/00, G01N025/00 ,  
 G01R001/04 , G01R031/00 ,  
 G01R031/28

ABSTRACTED-PUB-NO: US20010035058A

# BASIC-ABSTRACT:

NOVELTY - An insulating/air plenum brick is connected to the baseplate of each modular pallet through bolts. Each pallet loads a device to be tested. When the pallets are individually loaded into adjoining slots between front and rear frames of an environmental test chamber, the bricks adjoin together to form a barrier wall between devices to be tested and the

testing equipment.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(a) a method of fabricating an environmental test chamber;

(b) a hard drive carrier apparatus;

(c) and a method of testing electrical components.

USE - For burn in or final verification testing of e.g. computer hard drive, 2.5 or 3.5 inch disk drive. Also for testing other devices e.g. CD or CD-ROM drives, digital video disk DVD drives, tape drives, computer peripheral cards, computer memory chips, IC wafers, PC devices.

ADVANTAGE - Chamber can be quickly and inexpensively modified to easily suit for testing other device e.g. consumer electronics, or combinations of different types of devices. Allows chamber to be used as incubator for biological manufacturing processes or testing. Ensures independent control of temperature and humidity in test and tested chambers. Chamber can be provided with dual plenum system that supplies hot and cold pressurized mixed air at controlled temperature gradient or fixed temperature. Ensures small batch testing, thereby reducing average test cycle time. Attains high uniformity and stability of target test conditions. Facilitates

separate hot and cold testing. Chamber has compact design which can be placed or stacked beside another chamber.

DESCRIPTION OF DRAWING(S) - The figure shows the isometric view of a hard drive carrier structure.

ABSTRACTED-PUB-NO: WO 200109627A

EQUIVALENT-ABSTRACTS:

NOVELTY - An insulating/air plenum brick is connected to the baseplate of each modular pallet through bolts. Each pallet loads a device to be tested. When the pallets are individually loaded into adjoining slots between front and rear frames of an environmental test chamber, the bricks adjoin together to form a barrier wall between devices to be tested and the testing equipment.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (a) a method of fabricating an environmental test chamber;
- (b) a hard drive carrier apparatus;
- (c) and a method of testing electrical components.

USE - For burn in or final verification testing of e.g. computer hard drive, 2.5 or 3.5 inch disk drive. Also for testing other

devices e.g. CD or CD-ROM drives, digital video disk DVD drives, tape drives, computer peripheral cards, computer memory chips, IC wafers, PC devices.

ADVANTAGE - Chamber can be quickly and inexpensively modified to easily suit for testing other device e.g. consumer electronics, or combinations of different types of devices. Allows chamber to be used as incubator for biological manufacturing processes or testing. Ensures independent control of temperature and humidity in test and tested chambers. Chamber can be provided with dual plenum system that supplies hot and cold pressurized mixed air at controlled temperature gradient or fixed temperature. Ensures small batch testing, thereby reducing average test cycle time. Attains high uniformity and stability of target test conditions. Facilitates separate hot and cold testing. Chamber has compact design which can be placed or stacked beside another chamber.

DESCRIPTION OF DRAWING(S) - The figure shows the isometric view of a hard drive carrier structure.

CHOSEN-DRAWING: Dwg.1/19

DERWENT-CLASS: S01

EPI-CODES: S01-G01A1;